

Dipesh Patle

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

568
citations

623734

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33
all docs

33
docs citations

33
times ranked

524
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objective optimization of two alkali catalyzed processes for biodiesel from waste cooking oil. <i>Energy Conversion and Management</i> , 2014, 85, 361-372.	9.2	71
2	Transesterification of castor oil using benzimidazolium based Brønsted acid ionic liquid catalyst. <i>Fuel</i> , 2018, 231, 458-467.	6.4	54
3	Operator training simulators in virtual reality environment for process operators: a review. <i>Virtual Reality</i> , 2019, 23, 293-311.	6.1	53
4	Operator training simulators in the chemical industry: review, issues, and future directions. <i>Reviews in Chemical Engineering</i> , 2014, 30, .	4.4	44
5	A comparative study of fractional order PI ^λ /PI ^λ D ^μ tuning rules for stable first order plus time delay processes. <i>Resource-efficient Technologies</i> , 2016, 2, S136-S152.	0.1	34
6	Ultrasound-intensified biodiesel production from algal biomass: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 209-229.	16.2	28
7	Intensification and performance assessment of the formic acid production process through a dividing wall reactive distillation column with vapor recompression. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 123, 204-213.	3.6	27
8	Synthesis and characterization of polymer supported Fe-phthalocyanine entangled with carboxyl functionalized benzimidazolium moiety: A heterogeneous catalyst for efficient visible-light-driven degradation of organic dyes from aqueous solutions. <i>Journal of Molecular Liquids</i> , 2019, 288, 111032.	4.9	25
9	Deep-desulfurization of the petroleum diesel using the heterogeneous carboxyl functionalized poly-ionic liquid. <i>Resource-efficient Technologies</i> , 2016, 2, S105-S113.	0.1	23
10	Operator training simulator for biodiesel synthesis from waste cooking oil. <i>Chemical Engineering Research and Design</i> , 2016, 99, 55-68.	5.6	22
11	Plantwide Control of Biodiesel Production from Waste Cooking Oil Using Integrated Framework of Simulation and Heuristics. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14408-14418.	3.7	19
12	Ultrasound-Assisted and Benzimidazolium-Based Brønsted Acid Ionic Liquid-Catalyzed Transesterification of Castor Oil. <i>ACS Omega</i> , 2018, 3, 15455-15463.	3.5	19
13	Feedstocks, catalysts, process variables and techniques for biodiesel production by one-pot extraction-transesterification: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 335-378.	16.2	18
14	Neuro-estimator based GMC control of a batch reactive distillation. <i>ISA Transactions</i> , 2011, 50, 357-363.	5.7	16
15	Dry route process and wet route process for algal biodiesel production: A review of techno-economical aspects. <i>Chemical Engineering Research and Design</i> , 2021, 174, 365-385.	5.6	16
16	Design and retrofitting of ultrasound intensified and ionic liquid catalyzed in situ algal biodiesel production. <i>Chemical Engineering Research and Design</i> , 2021, 171, 168-185.	5.6	13
17	Biodiesel production via esterification of oleic acid catalyzed by Brønsted acid-functionalized porphyrin grafted with benzimidazolium-based ionic liquid as an efficient photocatalyst. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	11
18	Plantwide Control of the Formic Acid Production Process Using an Integrated Framework of Simulation and Heuristics. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13478-13489.	3.7	10

#	ARTICLE	IF	CITATIONS
19	Simultaneous optimization of economic, environmental and safety criteria for algal biodiesel process retrofitted using dividing wall column and multistage vapor recompression. <i>Chemical Engineering Research and Design</i> , 2022, 164, 1-14.	5.6	10
20	Pyrolysis of waste polyethylene under vacuum using zinc oxide. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-15.	2.3	8
21	Multiobjective optimization of ultrasound intensified and ionic liquid catalyzed in situ algal biodiesel production considering economic, environmental and safety indicators. <i>Chemical Engineering Research and Design</i> , 2022, 180, 134-152.	5.6	8
22	Process simulation and stochastic multiobjective optimisation of homogeneously acid-catalysed microalgal in-situ biodiesel production considering economic and environmental criteria. <i>Fuel</i> , 2022, 327, 125165.	6.4	7
23	Plantwide control and process safety of formic acid process having a reactive dividing-wall column and three material recycles. <i>Computers and Chemical Engineering</i> , 2021, 147, 107248.	3.8	6
24	Intensification and analysis of ethyl levulinate production process having a reactive distillation through vapor recompression and bottom flash techniques. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 156, 108081.	3.6	5
25	Modeling and Optimisation of Xylose Production by Enzymatic Hydrolysis using Neural Network and Particle Swarm Optimization. <i>Chemical Product and Process Modeling</i> , 2015, 10, 173-178.	0.9	4
26	Model based control strategies to control voltage of Proton Exchange Membrane Fuel Cell. <i>Chemical Product and Process Modeling</i> , 2021, 16, 69-85.	0.9	3
27	Design of Metal-free Porphyrin Photocatalyst: Synergetic Effect of Donor-acceptor Phenomenon for 1, 1-Diethoxyethane Production under Visible Light. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 1037-1058.	4.6	3
28	Energy saving in batch distillation for separation of ternary zeotropic mixture integrated with vapor recompression scheme: dynamics and control. <i>Chemical Product and Process Modeling</i> , 2021, 16, 101-115.	0.9	2
29	Techno-Economic Analysis of an Alkali Catalyzed Biodiesel Production Using Waste Palm Oil. <i>Applied Mechanics and Materials</i> , 0, 465-466, 120-124.	0.2	1
30	Mechanistic model-based control of biodiesel production processes: a review of needs and scopes. <i>Chemical Engineering Communications</i> , 2023, 210, 274-290.	2.6	1
31	Multi-loop Control System Design for Biodiesel Process using Waste Cooking Oil. <i>Journal of Physics: Conference Series</i> , 2015, 622, 012011.	0.4	0
32	Editorial special section: selected extended papers from an International Conference on Energy and Environmental Technologies for Sustainable Development (CHEM-CONFLUX20). <i>Chemical Product and Process Modeling</i> , 2021, 16, 67-68.	0.9	0